

**Flood Control Project Maintenance
Levee Inspections**

Fall 2011 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

NA0020	Overall LMA Rating	Total LMA Miles				
Sutter Maintenance Yard East-West Interceptor	U	4.76				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	3.17		3.17	66.60%		
Encroachments	0.27		0.27	5.67%	0.02	
Erosion / Bank Caving	0.43	0.03	0.55	11.55%		
<i>Channels</i>						
Erosion / Bank Caving	0.01		0.01	0.21%		
<i>LMA Totals:</i>	3.88	0.03	4.00	84.03%	0.02	0.00

Unit No. 01 West Levee RB	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.			
NA0020	M *	1.75				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Encroachments	0.01		0.01	0.57%	0.02	
Erosion / Bank Caving	0.01	0.03	0.13	7.43%		
<i>Channels</i>						
Erosion / Bank Caving	0.01		0.01	0.57%		
<i>Unit Totals:</i>	0.03	0.03	0.15	8.57% *	0.02	0.00

Unit No. 02 East Levee LB	Overall Unit Rating	Total Unit Miles				
NA0020	U	3.01				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	3.17		3.17	105.32%		
Encroachments	0.26		0.26	8.64%		
Erosion / Bank Caving	0.42		0.42	13.95%		
<i>Unit Totals:</i>	3.85	0.00	3.85	127.91%	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections
LMA District Cover Sheet
Fall 2011 Levee Inspection Results**

Sutter Maintenance Yard East-West Interceptor

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2011 Levee Inspection Results

Sutter Maintenance Yard East-West Interceptor

Waterway			Bank	Unit Miles
Unit No. 01 West Levee			Right	1.75
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	5/3/2011 - 5/3/2011		9/27/2011 - 9/27/2011	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Steve Beckley Sutter Yard		Steve Beckley Sutter Yard	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East-West Interceptor

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee							Right	1.75	09/27/2011 09/27/2011	Bob Duffey

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.22	0.22	Earthen Levee	Encroachments	LS	M	Prunings	39.171470 ° -121.756138 °	39.171470 ° -121.756138 °	1 Y
2	0.23	0.25	Earthen Levee	Encroachments	CR	PO	Landscaping	39.171418 ° -121.755963 °	39.171408 ° -121.755578 °	2 Y
3	0.62	0.65	Earthen Levee	Erosion / Bank Caving	WS	U	Schedule repair of erosion site prior to the next inspection.	39.171292 ° -121.748868 °	39.171232 ° -121.748175 °	4 Y
4	1.23	1.24	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	39.171380 ° -121.737337 °	39.171380 ° -121.737337 °	3 Y
5	1.67	1.67	Channels	Erosion / Bank Caving	WS	M	Inspector Comments: Sutter Yard needs to repair the channel.	39.171128 ° -121.729235 °	39.171128 ° -121.729235 °	6 Y

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing N : Not Inspected, see Inspector Comment C : Corrected
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	09/27/2011 09/27/2011	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.22
End Levee Mile	0.22
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the pruning along the levee.

rduffey_f_20110927_496.jpg



Levee Mile Report Line	2
Start Levee Mile	0.23
End Levee Mile	0.25
Location	Crown
Category	Earthen Levee
Item	Encroachments

View of cactus and pine trees along the land side toe.

rduffey_f_20110927_497.jpg



Levee Mile Report Line	3
Start Levee Mile	0.62
End Levee Mile	0.65
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion along the concrete ditch on the waterside slope.

rduffey_f_20110927_499.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	09/27/2011 09/27/2011	Bob Duffey

Levee Mile Report Line	4
Start Levee Mile	1.23
End Levee Mile	1.24
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion along the concrete canal.

rduffey_f_20110927_498.jpg



Levee Mile Report Line	5
Start Levee Mile	1.67
End Levee Mile	1.67
Location	Water Side
Category	Channels
Item	Erosion / Bank Caving

View of the erosion along the channel.

rduffey_f_20111208_585.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2011 Levee Inspection Results

Sutter Maintenance Yard East-West Interceptor

Waterway			Bank	Unit Miles
Unit No. 02 East Levee			Left	3.01
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/3/2011 - 5/3/2011		12/5/2011 - 12/5/2011	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Steve Beckley Sutter Yard		Steve Beckley Sutter Yard	

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Comments

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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East-West Interceptor

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee							Left	3.01	12/05/2011 12/05/2011	Bob Duffey
LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.55	1.55	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	39.171002 ° -121.716293 °	39.170817 ° -121.698202 °	1 Y
2	0.55	2.72	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	39.171002 ° -121.716293 °	39.170507 ° -121.676212 °	2 Y
3	1.43	1.55	Earthen Levee	Encroachments	LS	M	Debris	39.170782 ° -121.700167 °	39.170817 ° -121.698203 °	3 Y
4	1.54	1.93	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	39.170800 ° -121.698105 °	39.170702 ° -121.690788 °	4 Y
5	1.92	2.04	Earthen Levee	Encroachments	LS	M	Equipment	39.171104 ° -121.718880 °	39.171104 ° -121.718876 °	5 Y
6	1.95	1.98	Earthen Levee	Erosion / Bank Caving	LS	M	Note and monitor erosion site.	39.170775 ° -121.691252 °	39.170775 ° -121.691255 °	6 Y
7	2.63	2.63	Earthen Levee	Encroachments	LS	M	Garbage	39.170543 ° -121.677402 °	39.170543 ° -121.677402 °	8 Y
8	2.71	2.71	Earthen Levee	Encroachments	LS	M	Material	39.170548 ° -121.675970 °	39.170548 ° -121.675970 °	10 Y

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Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.01	12/05/2011 12/05/2011	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.55
End Levee Mile	1.55
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of the grasses and vegetation on both slopes.

rduffey_f_20110927_501.jpg



Levee Mile Report Line	3
Start Levee Mile	1.43
End Levee Mile	1.55
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the pile of broken concrete next to the levee.

rduffey_f_20110927_502.jpg



Levee Mile Report Line	4
Start Levee Mile	1.54
End Levee Mile	1.93
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion along the waterside slope.

rduffey_f_20110927_503.jpg



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Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.01	12/05/2011 12/05/2011	Bob Duffey

Levee Mile Report Line	5
Start Levee Mile	1.92
End Levee Mile	2.04
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of the equipment and buildings next to the landside berm.	
rduffey_f_20110927_504.jpg	



Levee Mile Report Line	6
Start Levee Mile	1.95
End Levee Mile	1.98
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
View of the erosion along the W/S slope.	
rduffey_f_20110927_505.jpg	



Levee Mile Report Line	7
Start Levee Mile	2.63
End Levee Mile	2.63
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of debris & garbage along the L/S toe.	
rduffey_f_20111206_561.jpg	

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.01	12/05/2011 12/05/2011	Bob Duffey

Levee Mile Report Line	8
Start Levee Mile	2.71
End Levee Mile	2.71
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of material, garbage & equipment along the L/S toe.	
rduffey_f_20111206_562.jpg	

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